

## Glyphosate N-acetylation

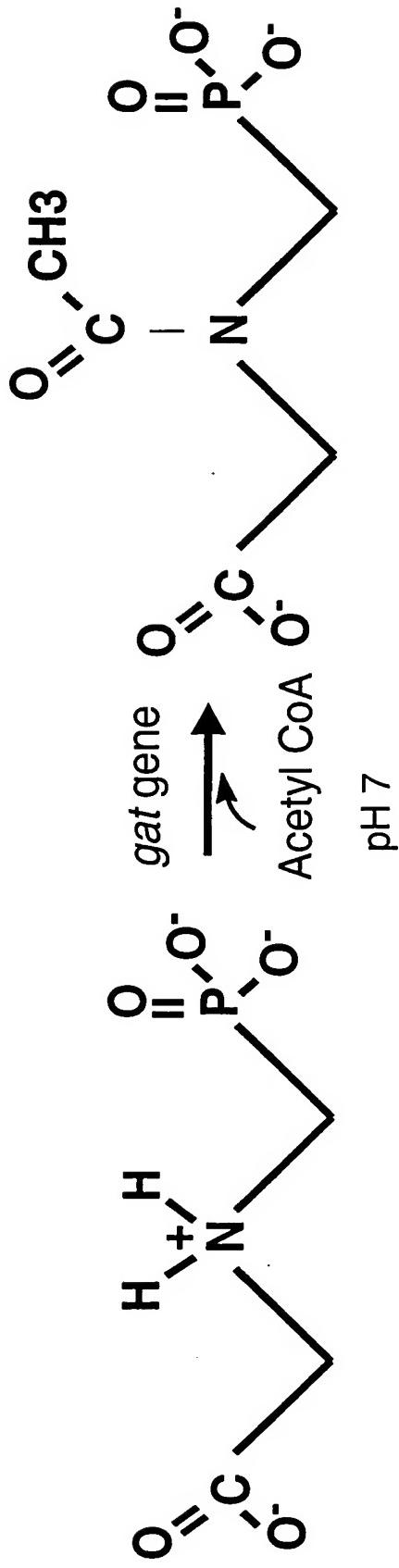


Figure 1

Figure 2

## Reaction product identified as N-acetylglycophosphate

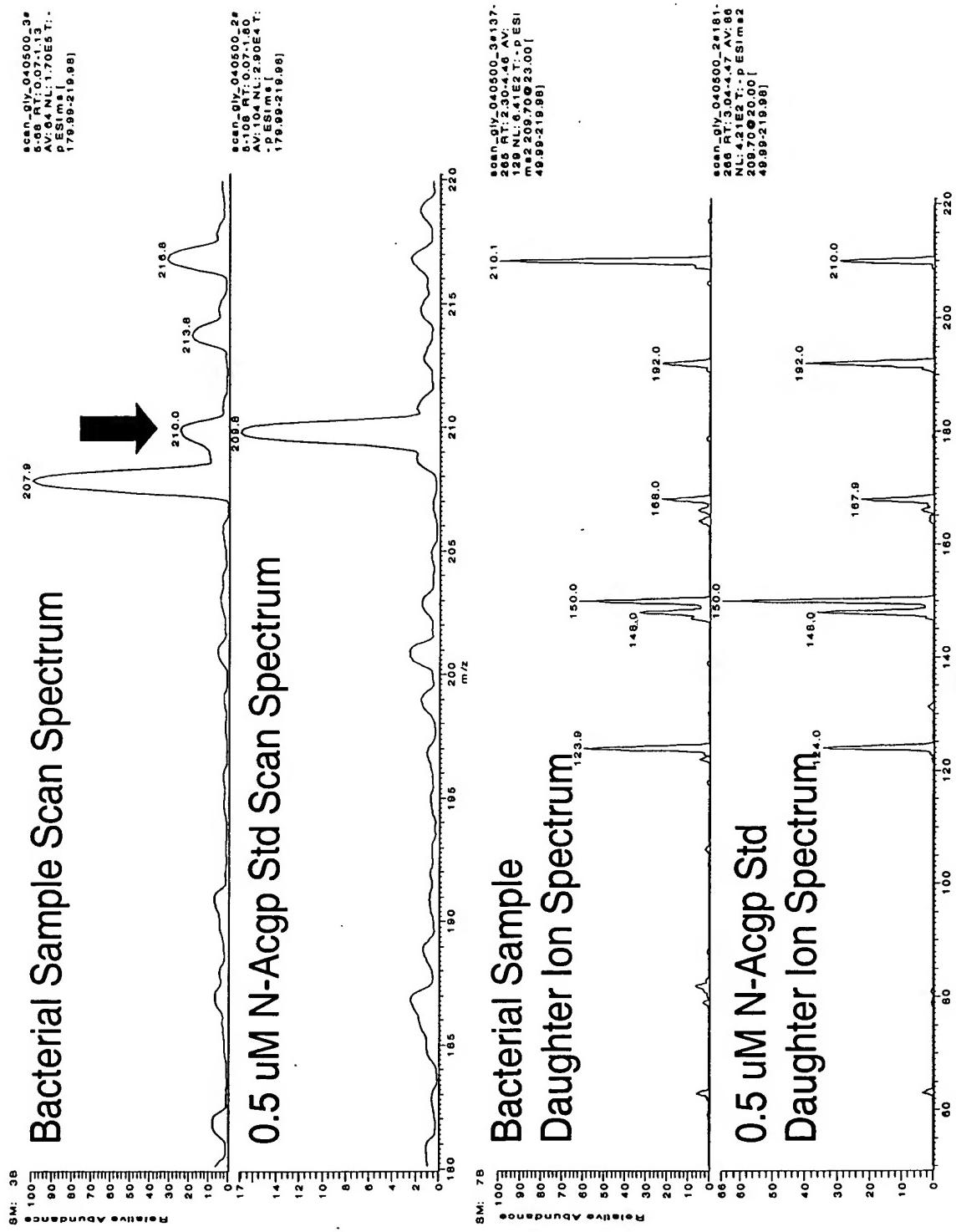
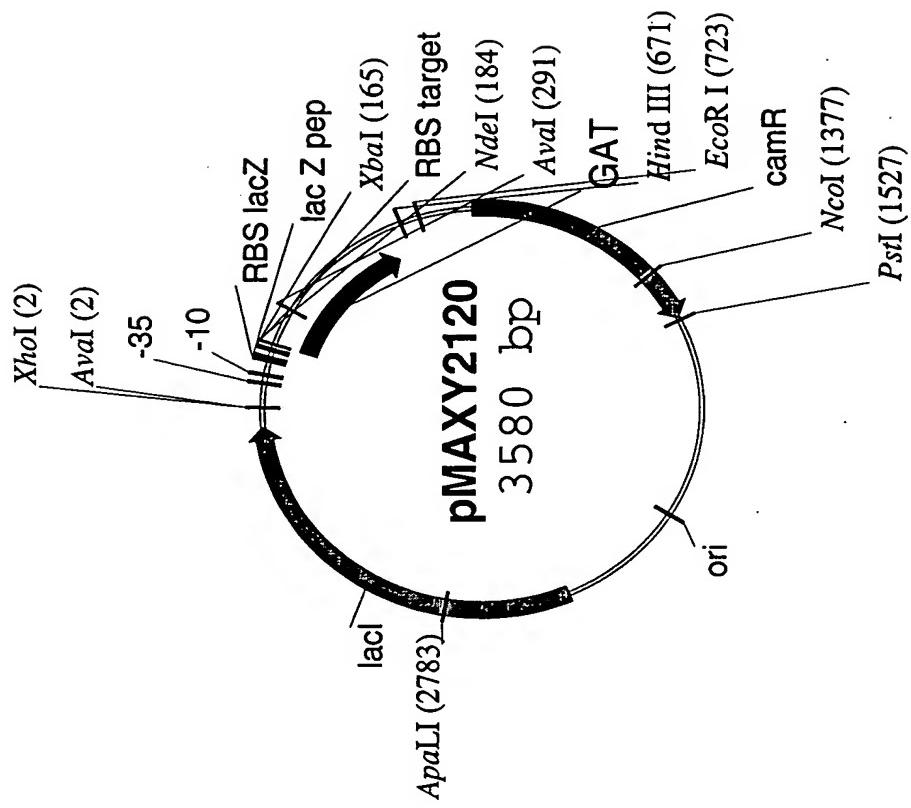


Figure 3

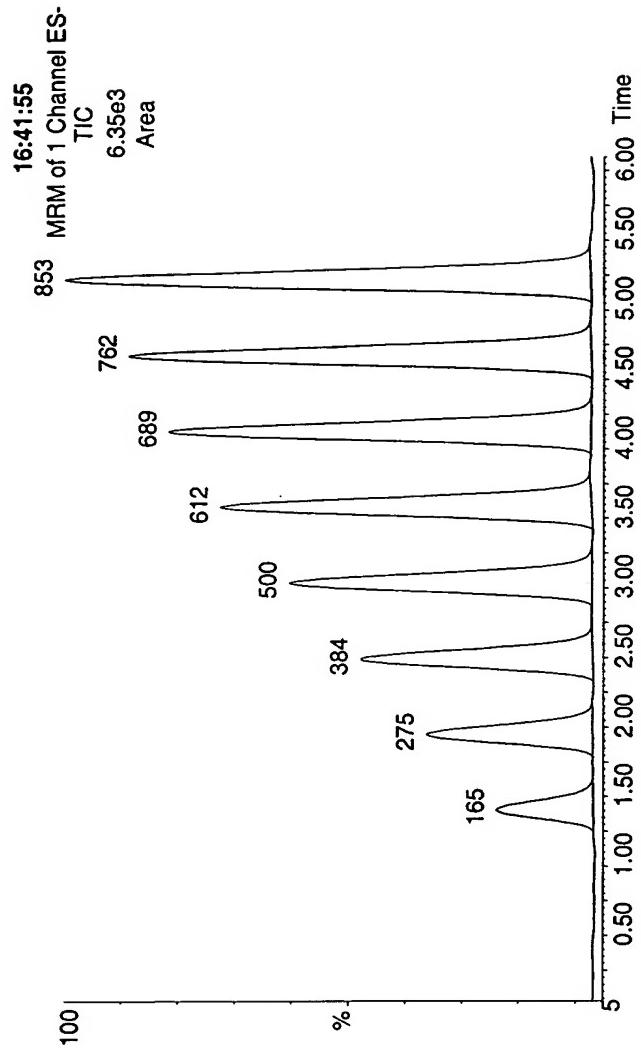
Nucleotide identity between sequence pairs

	B6	DS3	ST401	NHA-2	NH5-2	yitl
B6	***	95.0	93.2	94.8	92.8	62.0
DS3		***	95.5	99.8	95.0	61.8
ST401			***	95.2	99.5	62.4
NHA-2				***	94.8	61.5
NH5-2					***	62.9
yitl						***

**Figure 4**



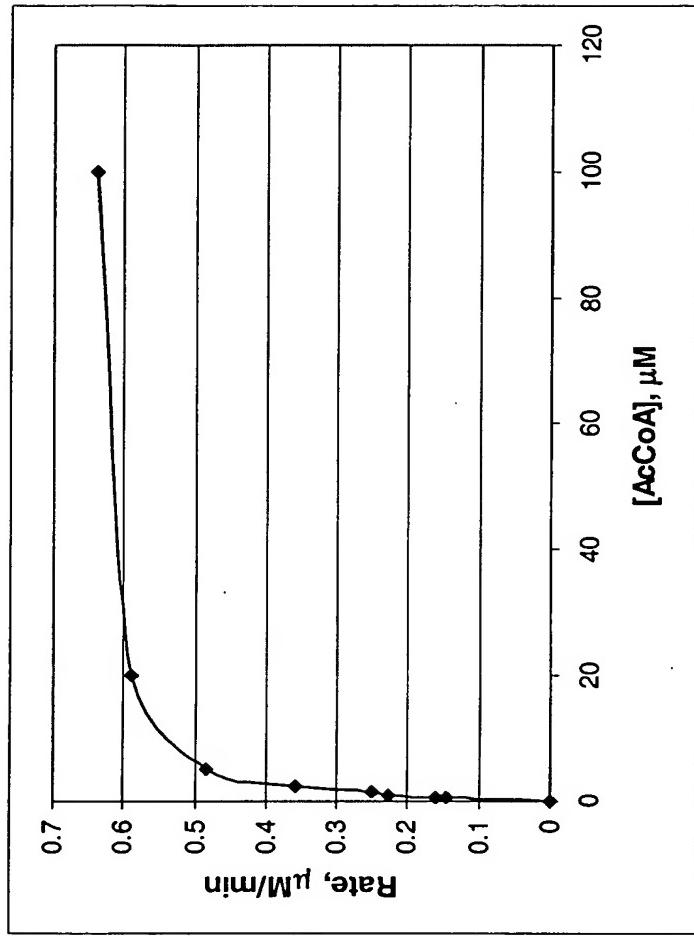
**Figure 5**



**Purified B6 GAT catalysts  
N-acetylglucosamine production**

B6 GAT  $K_M$  for Acetyl CoA = 2  $\mu\text{M}$

Figure 6



B6 GAT  $K_M$  for glyphosate = 2.9 mM

Figure 7

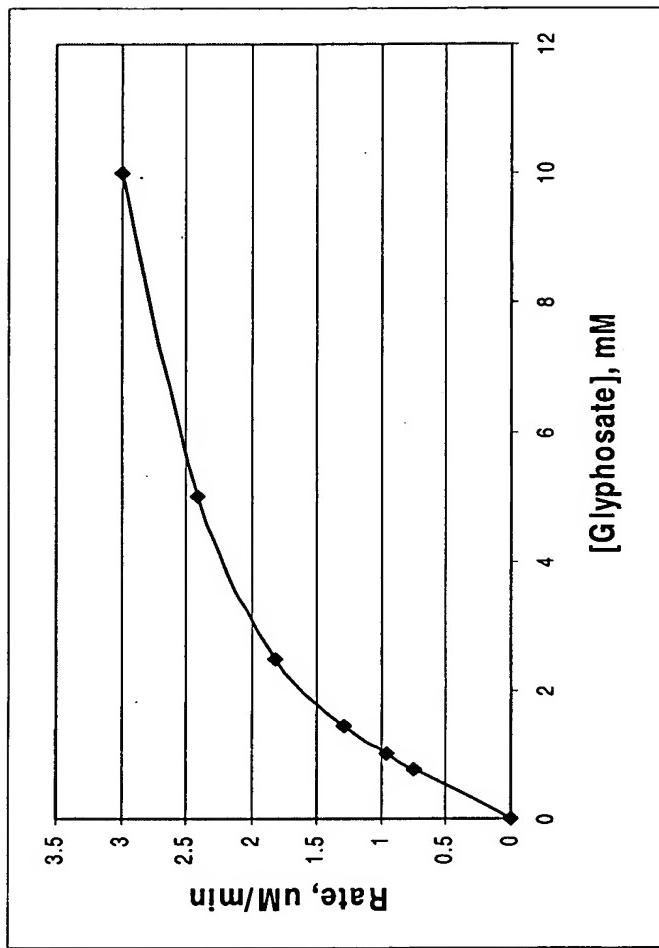


Figure 8

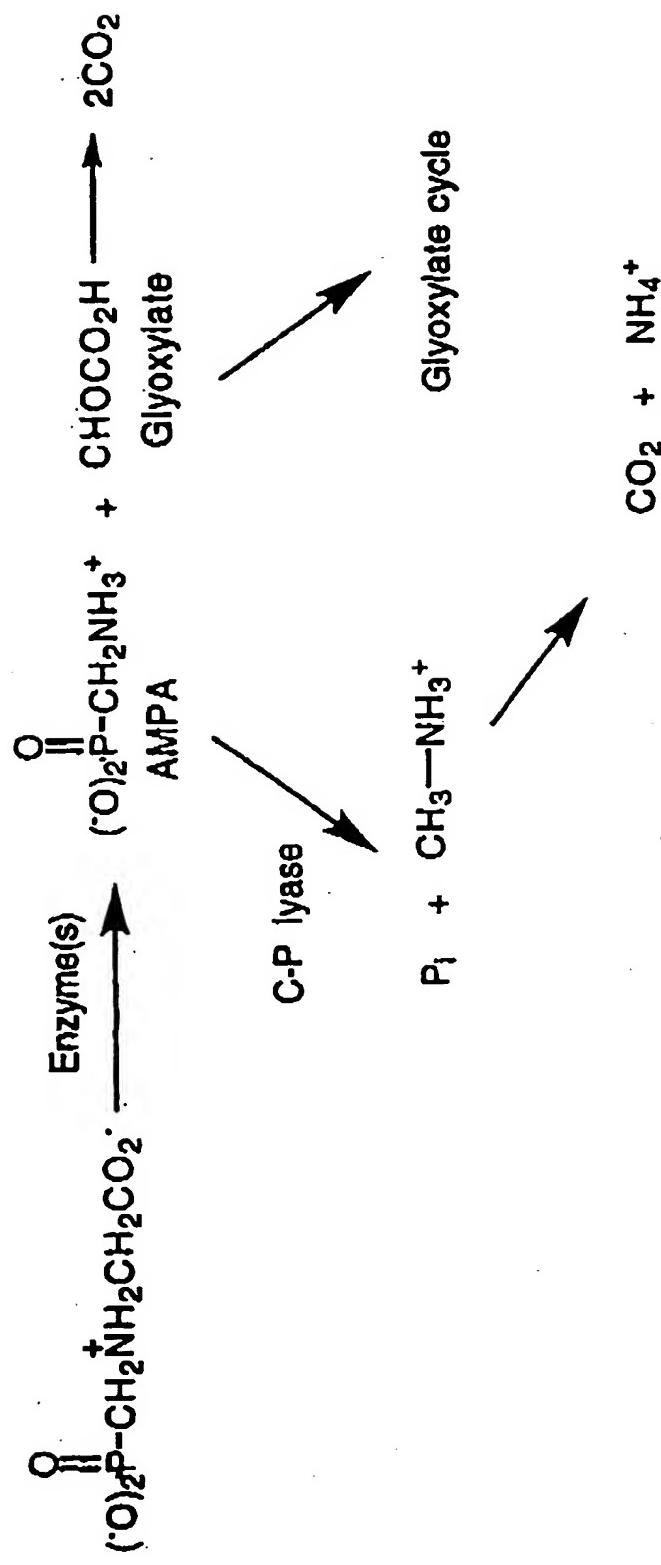


Figure 9

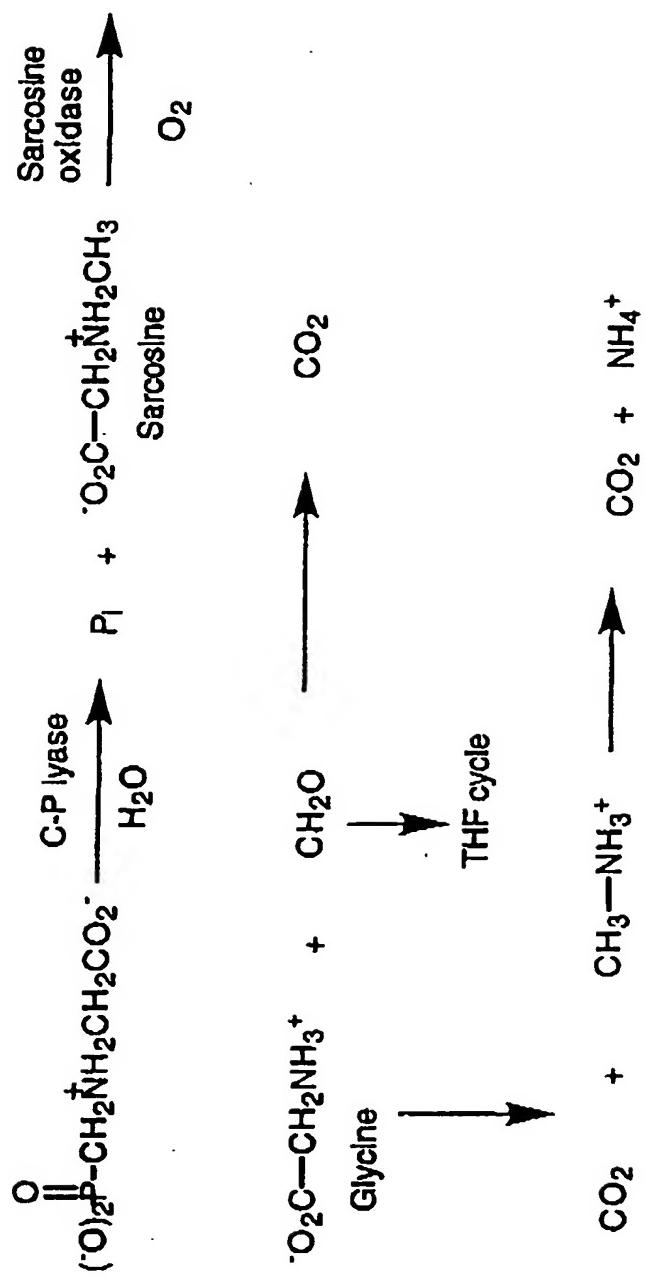


Figure 10

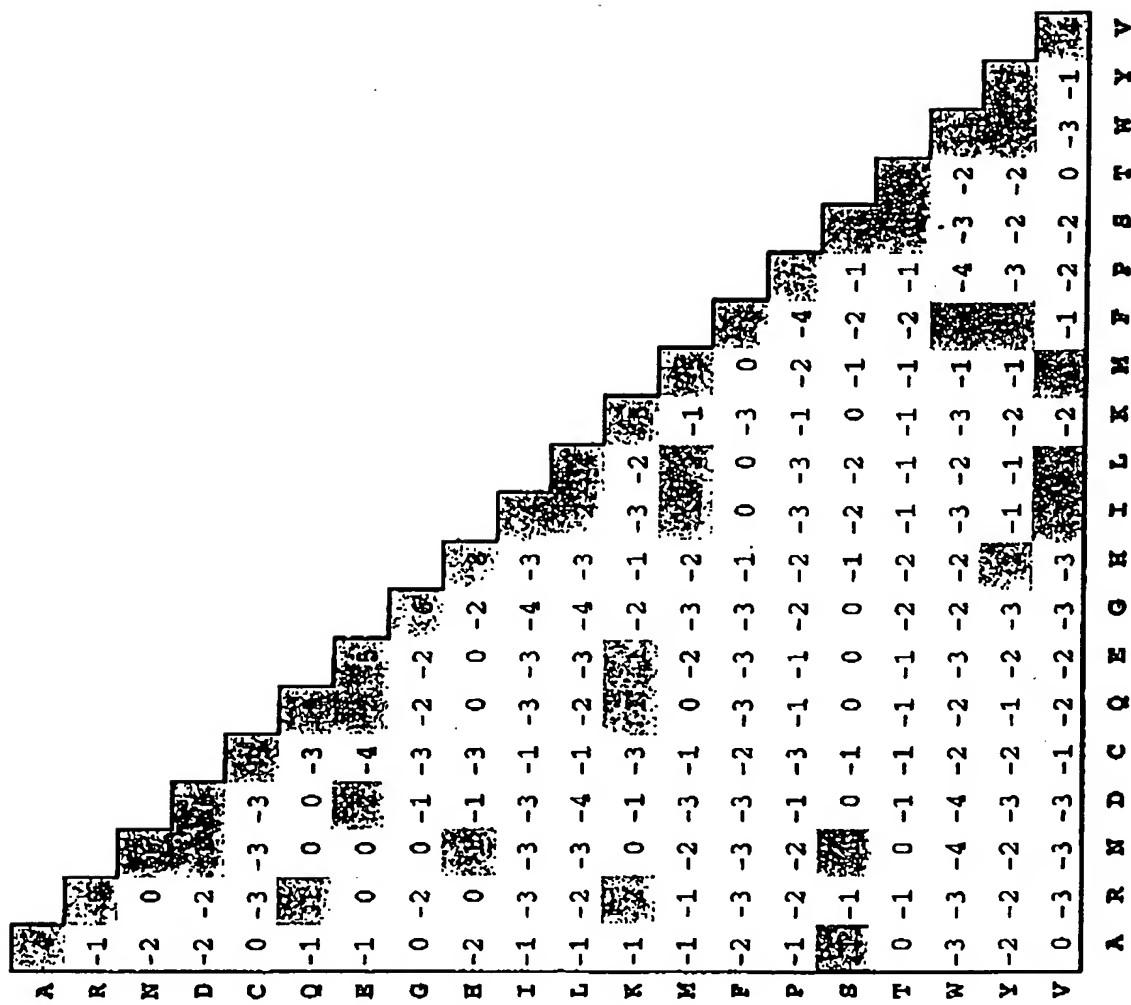


Figure 11

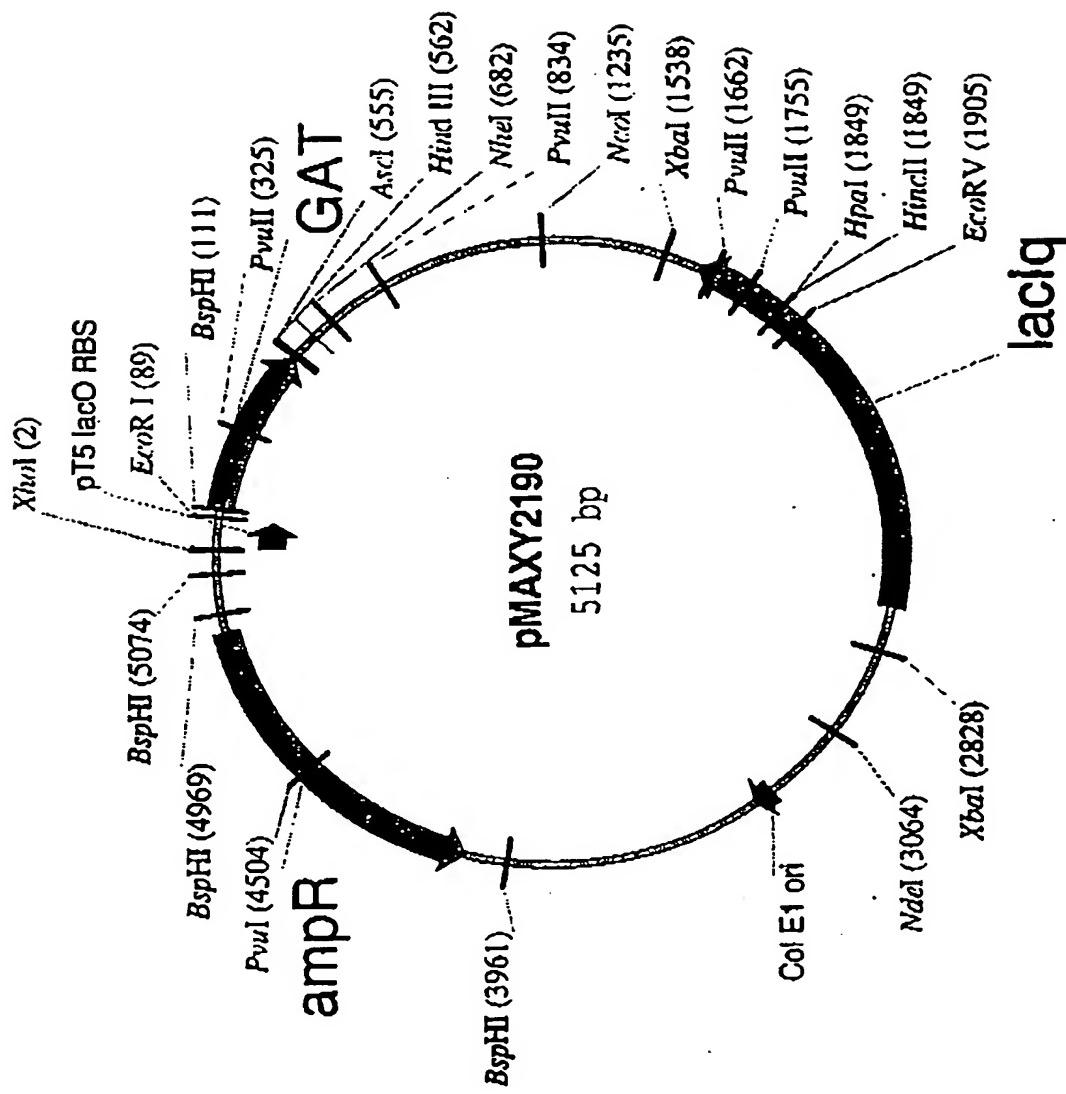


Figure 12

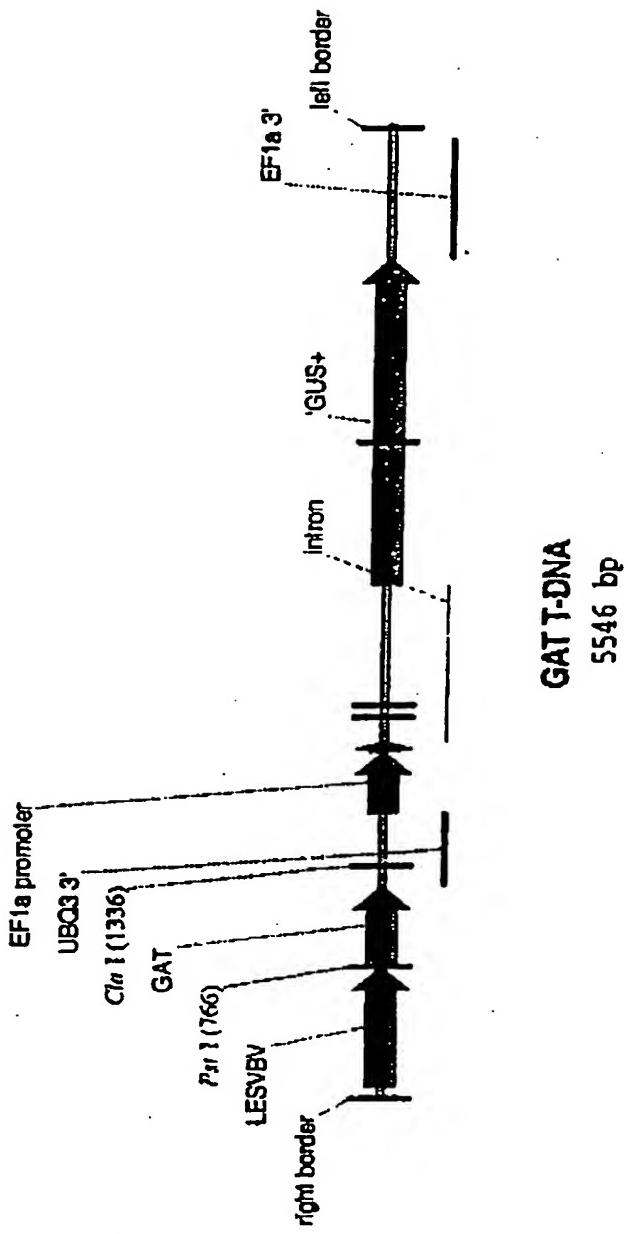


Figure 13

